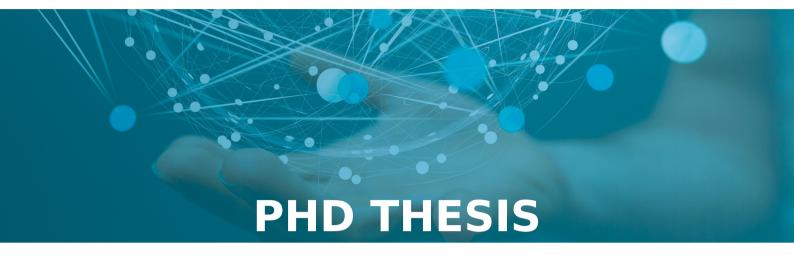


SCIENCES ET TECHNOLOGIES DE

NFORMATION ET DE





# Inferring and Comparing Structural Parcellations of the Human Brain using Diffusion MRI

# **Guillermo GALLARDO**

Inria Sophia Antipolis - Méditerranée, Athena Project Team

# Submitted in partial fulfillment of the requirements for the degree

**of** Doctor of Science Specialized in Control, Signal and Image Processing **of the** Université Côte d'Azur

Advisor: Rachid Deriche

Co-Advisor: Demian Wassermann

### Tentative date of defense :

21/12/2018

## In front of a Jury composed of:

Olivier Coulon, Research Director, CNRS, Aix-

Marseille University - Reviewer

Rachid Deriche, Research Director, Inria Sophia

Antipolis - Thesis Director

Bertrand Thirion, Research Director, Inria Saclay

IdF - Examiner

Michel Thiebaut de Schotten, Research Director,

CNRS, ICM, Paris - Reviewer

Ragini Verma, Professor, SBIA, University of

Pennsylvania - Examiner

Demian Wasserman, Senior Scientist, Inria

Saclay IdF - Co-advisor

Alfred Anwander, Senior Scientist, Max Planck

Institute for Human Cognitive and Brain

Sciences, Germany